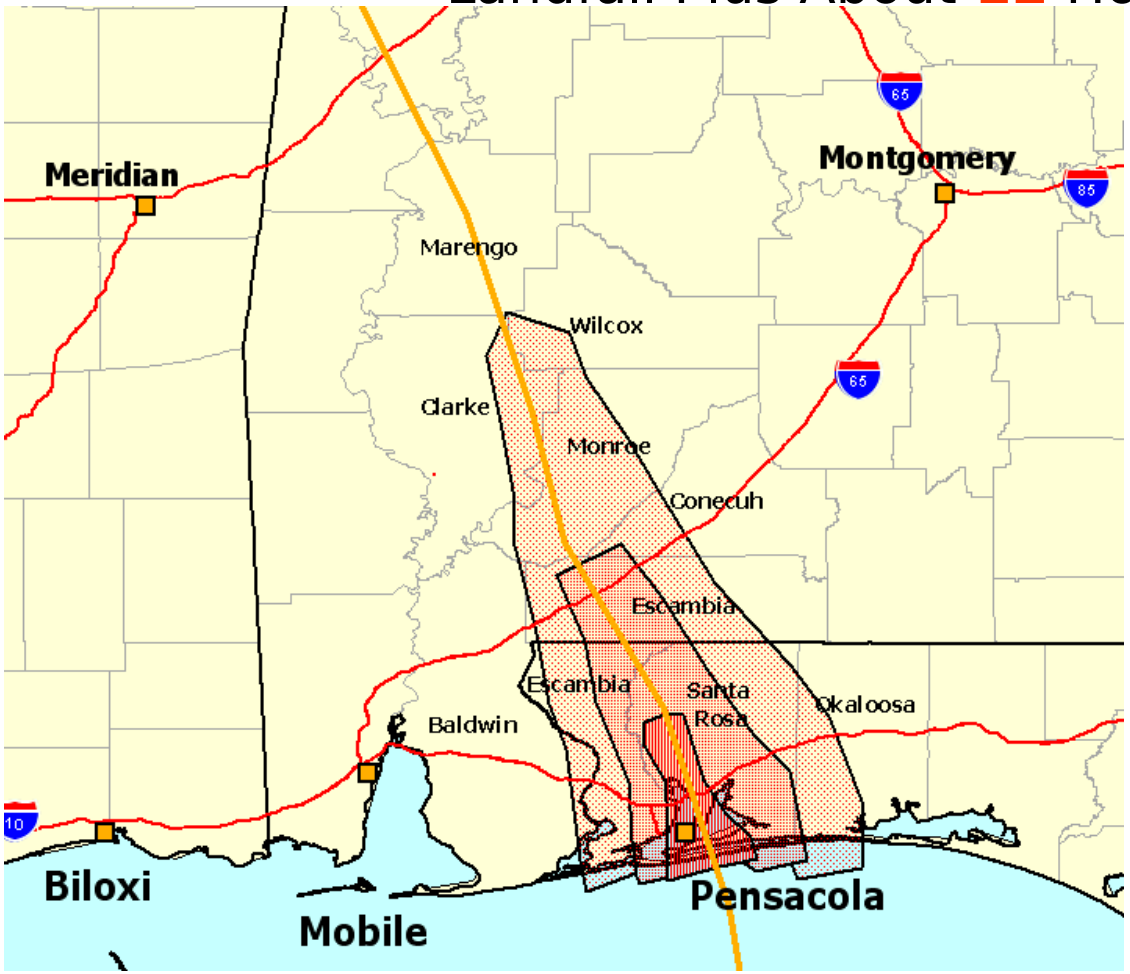
# Hurricane Dennis Wind Distribution

## Landfall Plus About 12 Hours

**For Official Use Only!**




***Most Probable Landfall Wind Distribution***

This hurricane scenario is based on a Category 3 storm making landfall in near proximity to Gulf Breeze, FL.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 07/11/2005)*** forecast.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

**Hurricane Dennis Wind Field**

**Sources:**
HURREVAC
LRL-DEBRIS

**Generated By:**
Terry Siemsen

**Generated Date:**
0630 EDT
07/11/2005

# Hurricane Dennis Debris Model

## Landfall Plus about **12** Hours

**For Official Use Only!**

### *Most Probable Landfall Debris Model Results*

Florida – 3,276,000 $yd^3$
Alabama – 387,000 $yd^3$

*Model results per county on following page*

**This hurricane scenario is based on a Category 3 storm making landfall in near proximity to Gulf Breeze, FL.**

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 07/11/2005)*** historic track.

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

| US Army Corps of Engineers | **Hurricane Dennis Debris Model** |
|---|---|
| **Sources:** HURREVAC LRL-DEBRIS | |
| **Generated By:** Terry Siemsen | |
| **Generated Date:** 0630 EDT 07/11/2005 | Page 2 of 18 |

# Hurricane Dennis Debris Model

## Landfall Plus about **12** Hours

**For Official Use Only!**

| State | Yards Per State | County | Yards Per County |
|---|---|---|---|
| | | | |
| Alabama | 387,000 | | |
| | | Baldwin | 18,000 |
| | | Clarke | 37,000 |
| | | Conecuh | 9,000 |
| | | Escambia | 201,000 |
| | | Marengo | 11,000 |
| | | Monroe | 88,000 |
| | | Wilcox | 23,000 |
| Alabama | | | |
| | | | |
| Florida | 3,276,000 | | |
| | | Escambia | 1,454,000 |
| | | Okaloosa | 212,000 |
| | | Santa Rosa | 1,610,000 |
| Florida | | | |
| | | | |
| TOTAL | 3,663,000 | | |

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

**Hurricane Dennis Debris Model**

**Sources:**
HURREVAC
LRL-DEBRIS

**Generated By:**
Terry Siemsen

**Generated Date:**
0630 EDT
07/11/2005

# Hurricane Dennis Ice Model

## Landfall Plus About **12** Hours

**For Official Use Only!**

### *Most Probable Landfall Ice Model Results*

Florida – 1,325,000 pounds
Alabama – 155,000 pounds

*Model results per county on following page*

**This hurricane scenario is based on a Category 3 storm making landfall in near proximity to Gulf Breeze, FL.**

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 07/11/2005)*** historic track.

The amount of ice forecasted is based on Mission Guide Book requirements (8 pounds per day per person) and Ice SME input and represents a first day daily need.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

| US Army Corps of Engineers | **Hurricane Dennis Ice Model** |
|---|---|
| **Sources:** HURREVAC LRL-DEBRIS | |
| **Generated By:** Terry Siemsen<br>**Generated Date** 0630 EDT 07/11/2005 | Page 4 of 18 |

# Hurricane Dennis Ice Model

## Landfall Plus About 12 Hours

**For Official Use Only!**

| State | Pounds per State | County | Pounds per County | Truckloads |
|---|---|---|---|---|
| Alabama | **155,000** | | | **9** |
| | | Baldwin | 8,000 | 1 |
| | | Clarke | 13,000 | 1 |
| | | Conecuh | 5,000 | 1 |
| | | Escambia | 76,000 | 2 |
| | | Marengo | 1,000 | 1 |
| | | Monroe | 47,000 | 2 |
| | | Wilcox | 5,000 | 1 |
| Florida | **1,325,000** | | | **34** |
| | | Escambia | 757,000 | 19 |
| | | Okaloosa | 159,000 | 4 |
| | | Santa Rosa | 409,000 | 11 |
| TOTAL | **1,480,000** | | | **43** |

The amount of ice forecasted is based on Mission Guide Book requirements (8 pounds per person) and Ice SME input and represents a first day daily need. The assumption in this scenario is that 60% of the resident population affected by Dennis will have power outage in this area will cause a need for ice.

Details about this model may be obtained at
**https://englink.usace.army.mil**
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

**Hurricane Dennis Ice Model**

**Sources:**
HURREVAC
LRL-DEBRIS

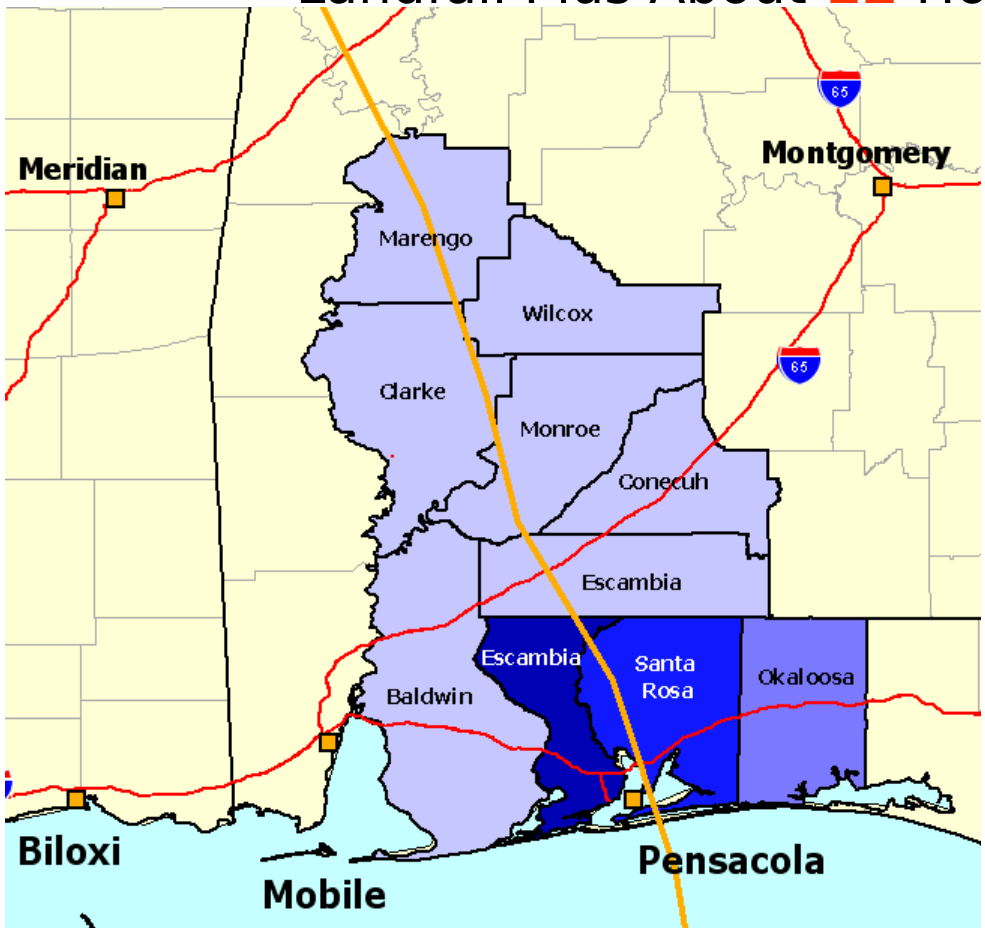
**Generated By:**
Terry Siemsen

**Generated Date**
0630 EDT
07/11/2005

# Hurricane Dennis Water Model

## Landfall Plus About **12** Hours

**For Official Use Only!**




### *Most Probable Landfall Water Model Results*

Florida – 497,000 Liters
Alabama – 60,000 Liters

*Model results per county on following page*

**This hurricane scenario is based on a Category 3 storm making landfall in near proximity to Gulf Breeze, FL.**

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 07/11/2005)*** historic track.

The amount of water forecasted is based on Mission Guide Book requirements (3 liters per person per day) and Water SME input and represents a first day daily need.

Details about this model may be obtained at
**https://englink.usace.army.mil**
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

**Hurricane Dennis Water Model**

**Sources:**
HURREVAC
LRL-DEBRIS

**Generated By:**
Terry Siemsen

**Generated Date**
0630 EDT
07/11/2005

# Hurricane Dennis Water Model

## Landfall Plus About **12** Hours

**For Official Use Only!**

| State | Liters Per State | County | Liters Per County | Truckloads |
|---|---|---|---|---|
| | | | | |
| Alabama | **60,000** | | | **8** |
| | | Baldwin | 3,000 | 1 |
| | | Clarke | 5,000 | 1 |
| | | Conecuh | 2,000 | 1 |
| | | Escambia | 29,000 | 2 |
| | | Marengo | 1,000 | 1 |
| | | Monroe | 18,000 | 1 |
| | | Wilcox | 2,000 | 1 |
| | | | | |
| Florida | **497,000** | | | **29** |
| | | Escambia | 284,000 | 16 |
| | | Okaloosa | 60,000 | 4 |
| | | Santa Rosa | 153,000 | 9 |
| | | | | |
| TOTAL | **557,000** | | | **37** |

The amount of water forecasted is based on Mission Guide Book requirements (3 liters per person) and Water SME input and represents a first day daily need. The assumption in this scenario is that 60% of the resident population affected by Dennis will have power outage in this area will cause a need for water.

Details about this model may be obtained at
**https://englink.usace.army.mil**
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

**Hurricane Dennis Water Model**

**Sources:**
HURREVAC
LRL-DEBRIS

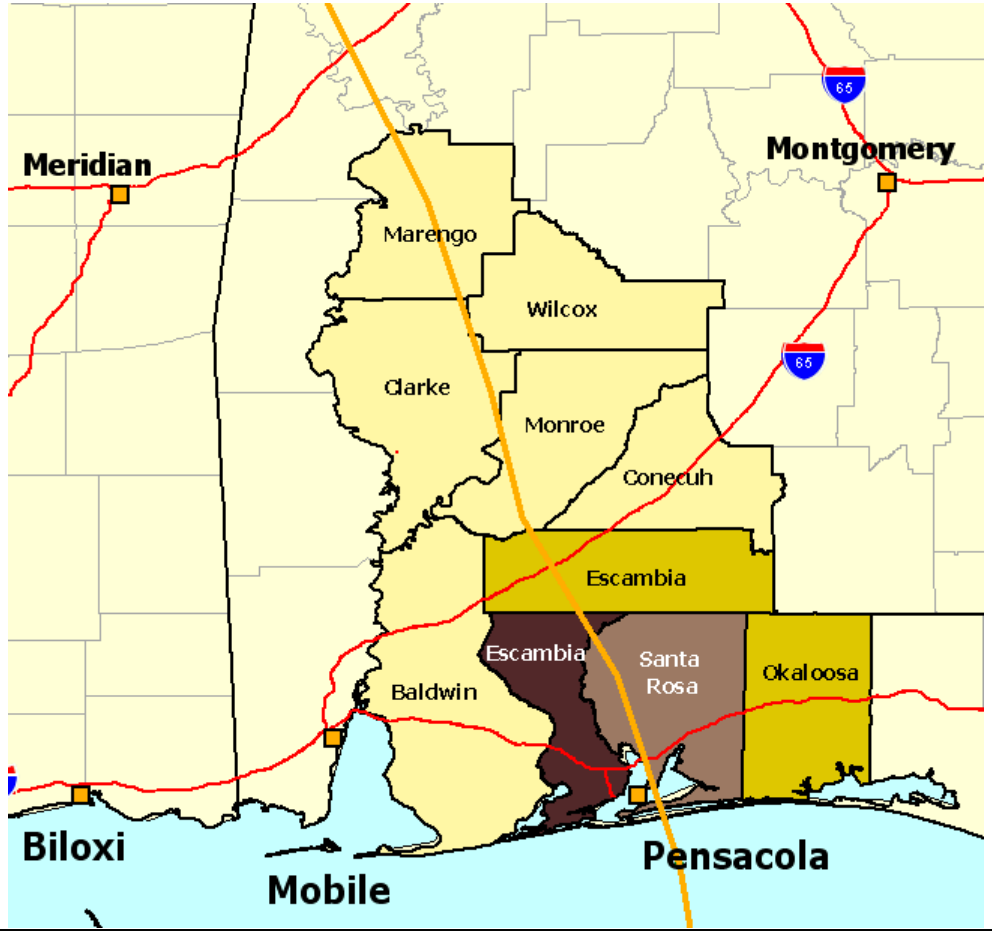
**Generated By:**
Terry Siemsen

**Generated Date**
0630 EDT
07/11/2005

# Hurricane Dennis Population Model

## Landfall Plus About **12** Hours

**For Official Use Only!**




***Most Probable Landfall Population Model Results***

Florida – 476,000 persons
Alabama – 65,000 persons

*Model results per county on following page*

**This hurricane scenario is based on a Category 3 storm making landfall in near proximity to Gulf Breeze, FL.**

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 07/11/2005)*** historic track.

The number of persons included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values).

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

**Hurricane Dennis Population Model**

**Sources:** HURREVAC LRL-DEBRIS

**Generated By:** Terry Siemsen

**Generated Date** 0630 EDT 07/11/2005

# Hurricane Dennis Population Model

## Landfall Plus About **12** Hours

**For Official Use Only!**

| State | Population per State | County | Population per County |
|---|---|---|---|
| | | | |
| Alabama | 65,000 | | |
| | | Baldwin | 3,000 |
| | | Clarke | 5,000 |
| | | Conecuh | 2,000 |
| | | Escambia | 32,000 |
| | | Marengo | 1,000 |
| | | Monroe | 20,000 |
| | | Wilcox | 2,000 |
| | | | |
| Florida | 476,000 | | |
| | | Escambia | 293,000 |
| | | Okaloosa | 66,000 |
| | | Santa Rosa | 117,000 |
| | | | |
| TOTAL | 541,000 | | |

The number of persons estimated to be within hurricane force winds comes from Census 2000 values.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

**Hurricane Dennis Population Model**

**Sources:**
HURREVAC
LRL-DEBRIS

**Generated By:**
Terry Siemsen

**Generated Date**
0630 EDT
07/11/2005

# Hurricane Dennis Households Model

## Landfall Plus About **12** Hours

**For Official Use Only!**

***Most Probable Landfall Households Model Results***

Florida – 181,000 households
Alabama – 26,000 households

*Model results per county on following page*

**This hurricane scenario is based on a Category 3 storm making landfall in near proximity to Gulf Breeze, FL.**

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 07/11/2005)*** historic track.

The number of households included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values).

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

**Hurricane Dennis Households Model**

**Sources:** HURREVAC LRL-DEBRIS

**Generated By:** Terry Siemsen

**Generated Date** 0630 EDT 07/11/2005

# Hurricane Dennis Households Model

## Landfall Plus About **12** Hours

**For Official Use Only!**

| State | Households Per State | County | Households Per County |
|---|---|---|---|
| | | | |
| Alabama | 26,000 | | |
| | | Baldwin | 1,000 |
| | | Clarke | 2,000 |
| | | Conecuh | 1,000 |
| | | Escambia | 12,000 |
| | | Marengo | 1,000 |
| | | Monroe | 8,000 |
| | | Wilcox | 1,000 |
| | | | |
| Florida | 181,000 | | |
| | | Escambia | 110,000 |
| | | Okaloosa | 28,000 |
| | | Santa Rosa | 43,000 |
| | | | |
| TOTAL | 207,000 | | |

The number of households estimated to be within hurricane force winds comes from Census 2000 values.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

**Hurricane Dennis Households Model**

**Sources:**
HURREVAC
LRL-DEBRIS

**Generated By:**
Terry Siemsen

**Generated Date**
0630 EDT
07/11/2005

# Hurricane Dennis
# Temporary Roofing Model Results

## Landfall Plus About 12 Hours

**For Official Use Only!**

***Most Probable Landfall Temporary Roofing Model Results***

Florida – 4,900 structures
Alabama – 800 structures

*Model results per county on following page*

**This hurricane scenario is based on a Category 3 storm making landfall in near proximity to Gulf Breeze, FL.**

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500EDT 07/11/2005)*** historic track.

The amount of temporary roofing that may be required is based on 1% of housing units damaged in CAT 1 wind areas, 3% of housing units damaged in CAT 2 wind areas, and 5% of housing units damaged in CAT 3 wind areas. This only indicates possible need – not necessarily a mission to repair roofs.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

**Hurricane Dennis Temp Roofing Model**

**Sources:** HURREVAC LRL-DEBRIS

**Generated By:** Terry Siemsen

**Generated Date** 0630 EDT 07/11/2005

# Hurricane Dennis
# Temporary Roofing Model Results

## Landfall Plus About **12** Hours

**For Official Use Only!**

| State | Houseunits per State | County | Houseunits per County |
|---|---|---|---|
| | | | |
| Alabama | 800 | | |
| | | Baldwin | 100 |
| | | Clarke | 100 |
| | | Conecuh | 100 |
| | | Escambia | 200 |
| | | Marengo | 100 |
| | | Monroe | 100 |
| | | Wilcox | 100 |
| | | | |
| Florida | 4,900 | | |
| | | Escambia | 2,900 |
| | | Okaloosa | 300 |
| | | Santa Rosa | 1,700 |
| | | | |
| TOTAL | 5,700 | | |

**THIS IS AN EXPERIMENTAL MODEL !! THE VALUES ARE PRELIMINARY AND SHOULD BE CONSIDERED A GUIDE BUT NOT AN ABSOLUTE VALUE !!**

The amount of temporary roofing that may be required is based on 1% of housing units damaged in CAT 1 wind areas, 3% of housing units damaged in CAT 2 wind areas, and 5% of housing units damaged in CAT 3 wind areas. This only indicates possible need – not necessarily a mission to repair roofs.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

**Hurricane Dennis emp Roofing Model**

**Sources:**
HURREVAC
LRL-DEBRIS

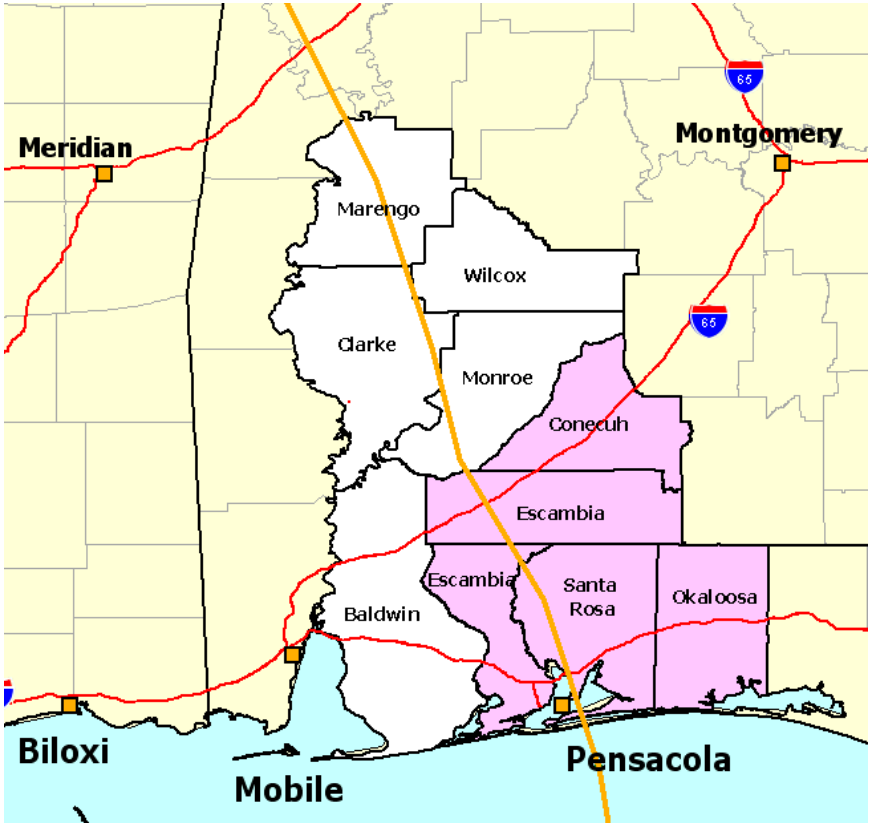
**Generated By:**
Terry Siemsen

**Generated Date**
0630 EDT
07/11/2005

# Hurricane Dennis
# Temporary Housing Model Results

## Landfall Plus About **12** Hours

**For Official Use Only!**




***Most Probable Landfall Temporary Housing Model Results***

**Florida – 1,800 structures**
**Alabama – 700 structures**

*Model results per county on following page*

**This hurricane scenario is based on a Category 3 storm making landfall in near proximity to Gulf Breeze, FL.**

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 07/11/2005)*** historic track.

The amount of temporary housing that may be required is based on no housing need in CAT 1 wind areas, 2% of housing units lost in CAT 2 wind areas, and 4% of housing units lost in CAT 3 wind areas.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

**Hurricane Dennis emp Housing Model**

**Sources:**
HURREVAC
LRL-DEBRIS

**Generated By:**
Terry Siemsen

**Generated Date**
0630 EDT
07/11/2005

# Hurricane Dennis
# Temporary Housing Model Results

Landfall Plus About **12** Hours

**For Official Use Only!**

| State | Houseunits per State | County | Houseunits per County |
|---|---|---|---|
| | | | |
| Alabama | 700 | | |
| | | Baldwin | 100 |
| | | Clarke | 100 |
| | | Conecuh | 100 |
| | | Escambia | 100 |
| | | Marengo | 100 |
| | | Monroe | 100 |
| | | Wilcox | 100 |
| | | | |
| Florida | 1,800 | | |
| | | Escambia | 800 |
| | | Okaloosa | 100 |
| | | Santa Rosa | 900 |
| | | | |
| TOTAL | 2,500 | | |

**THIS IS AN EXPERIMENTAL MODEL !! THE VALUES ARE PRELIMINARY AND SHOULD BE CONSIDERED A GUIDE BUT NOT AN ABSOLUTE VALUE !!**

The amount of temporary housing that may be required is based on no housing need in CAT 1 wind areas, 2% of housing units lost in CAT 2 wind areas, and 4% of housing units lost in CAT 3 wind areas.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

**Hurricane Dennis emp Housing Model**

**Sources:**
HURREVAC
LRL-DEBRIS

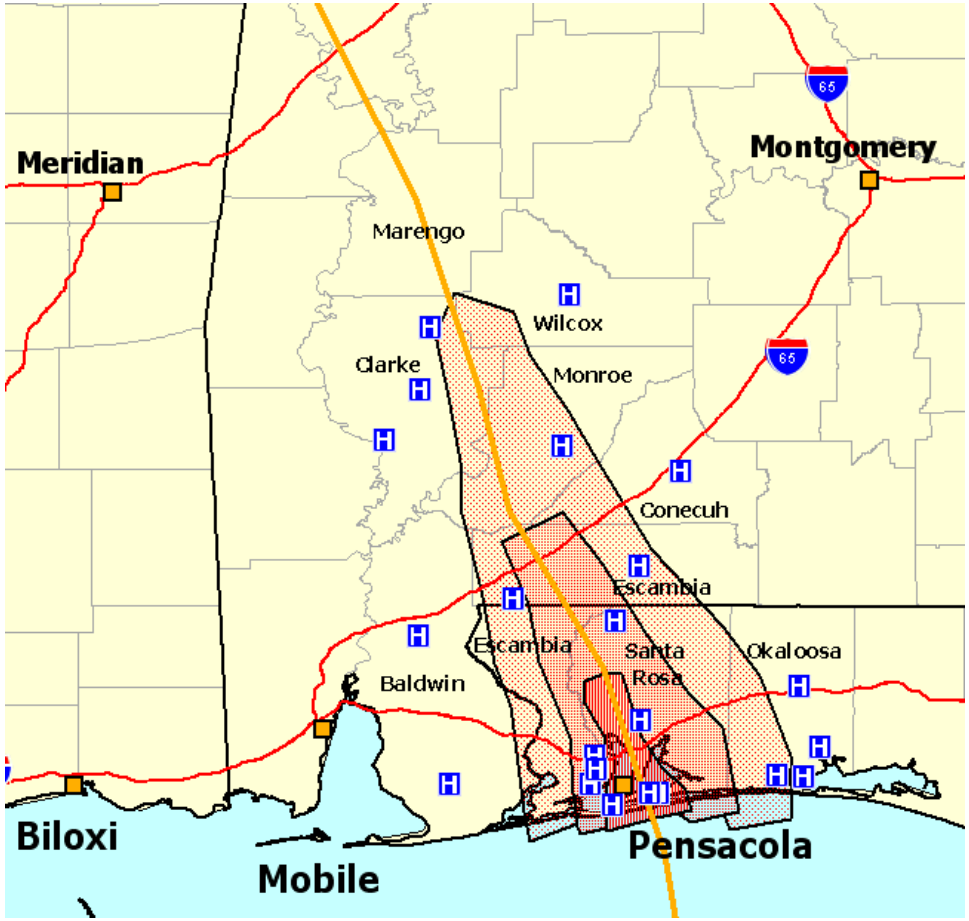
**Generated By:**
Terry Siemsen

**Generated Date**
0630 EDT
07/11/2005

# Hurricane Dennis Hospitals

## Landfall Plus About **12** Hours

**For Official Use Only!**




***Most Probable Landfall Hospitals inside Hurricane Force Winds or within 25 miles of Hurricane Force Winds***

***Critical Infrastructure –***
***Florida – 12***
***Alabama – 10***

This hurricane scenario is based on a Category 3 storm making landfall in near proximity to Gulf Breeze, FL.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 07/11/2005)*** forecast.

The number of hospitals included in this output are those that would be included within estimated hurricane force winds (data source: HAZUS MH).

Details about this model may be obtained at
**https://englink.usace.army.mil**
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

**Hurricane Dennis Hospitals**

**Sources:**
HURREVAC
LRL-DEBRIS

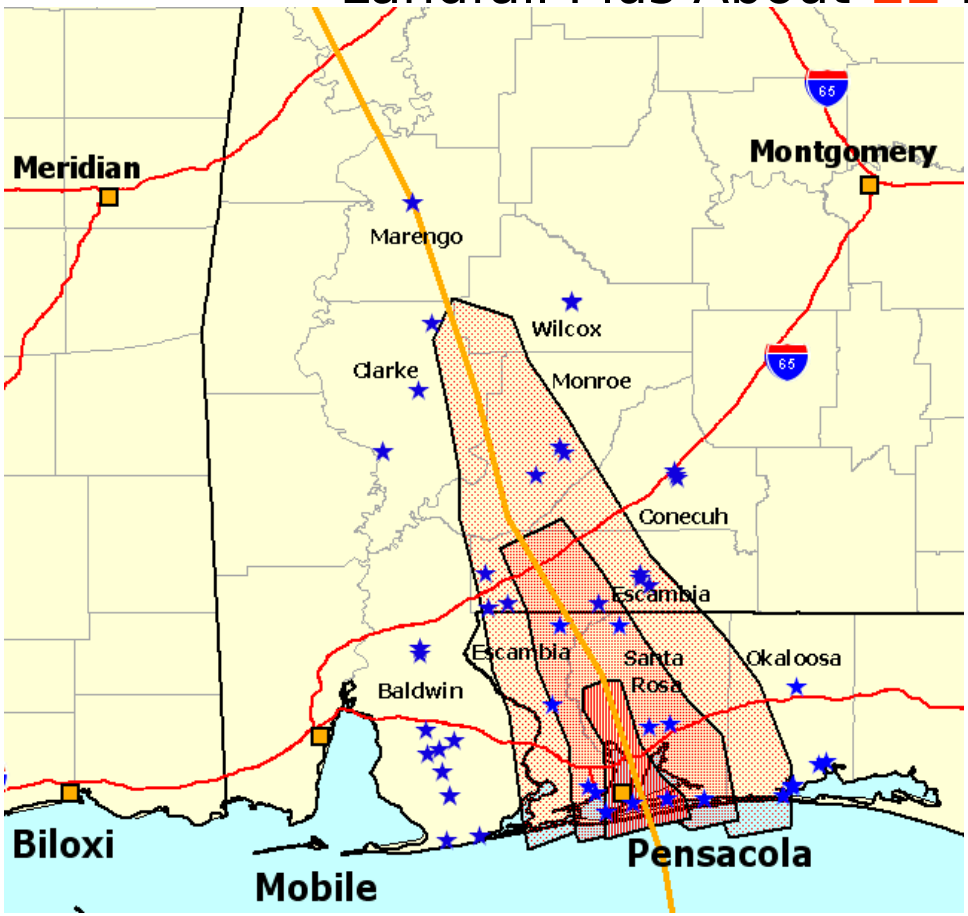
**Generated By:**
Terry Siemsen

**Generated Date**
0630 EDT
07/11/2005

# Hurricane Dennis Police Stations

## Landfall Plus About **12** Hours

**For Official Use Only!**




***Most Probable Landfall Police Stations inside Hurricane Force Winds or within 25 miles of Hurricane Force Winds***

***Critical Infrastructure –***
***Florida – 17***
***Alabama – 33***

This hurricane scenario is based on a Category 3 storm making landfall in near proximity to Gulf Breeze, FL.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 07/11/2005)*** forecast.

The number of police stations included in this output are those that would be included within estimated hurricane force winds (data source: HAZUS MH).

Details about this model may be obtained at
**https://englink.usace.army.mil**
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

**Hurricane Dennis Police Stations**

**Sources:**
HURREVAC
LRL-DEBRIS

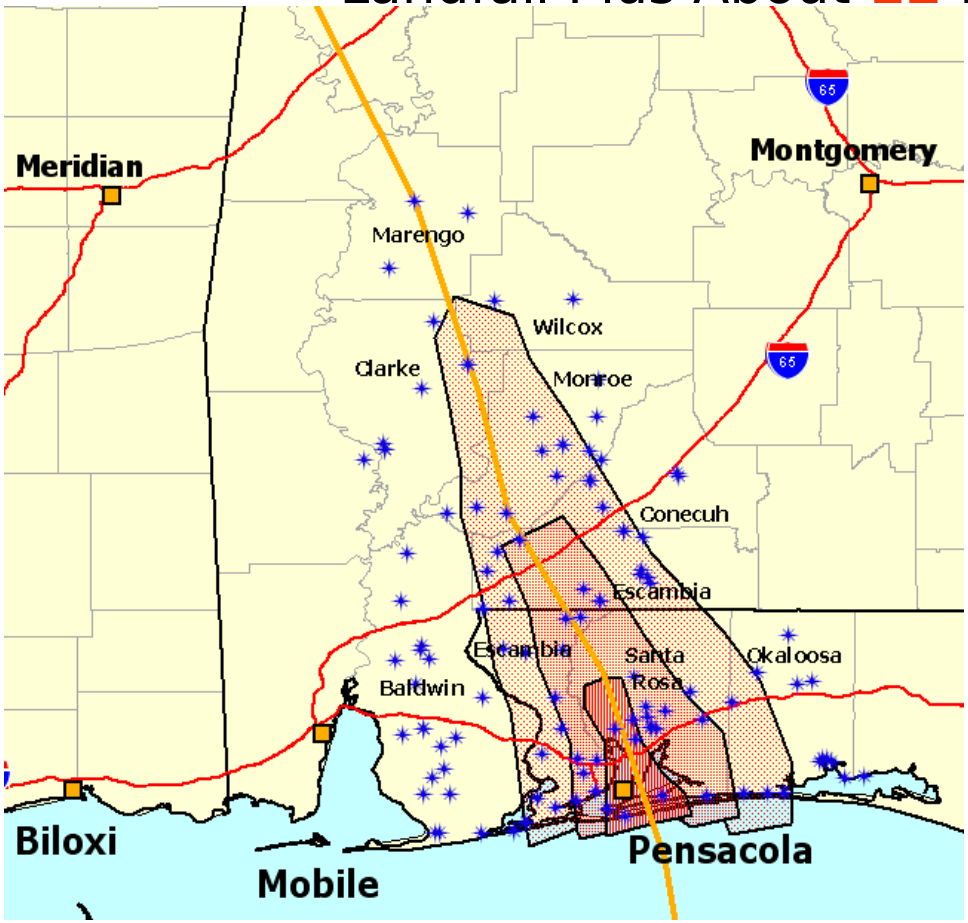
**Generated By:**
Terry Siemsen

**Generated Date**
0630 EDT
07/11/2005

# Hurricane Dennis Fire Stations

## Landfall Plus About **12** Hours

**For Official Use Only!**




***Most Probable Landfall Fire Stations inside Hurricane Force Winds or within 25 miles of Hurricane Force Winds***

***Critical Infrastructure –***
***Florida – 47***
***Alabama – 65***

This hurricane scenario is based on a Category 3 storm making landfall in near proximity to Gulf Breeze, FL.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 07/11/2005)*** forecast.

The number of fire stations included in this output are those that would be included within estimated hurricane force winds (data source: HAZUS MH).

Details about this model may be obtained at
**https://englink.usace.army.mil**
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

**Hurricane Dennis Fire Stations**

**Sources:**
HURREVAC
LRL-DEBRIS

**Generated By:**
Terry Siemsen

**Generated Date**
0630 EDT
07/11/2005